In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

Application.

Listing of Claims:

1. (Currently amended)   A method for modeling a system having one or more components, comprising:

    (a) dividing said system into one or more components;

    (b) defining a plurality of realms, wherein each of said realms contains objects representing selected ones of said one or more components, said objects representing attributes and relationships of an associated one of the one or more components;

    (c) defining associations between realms to unify objects in said realms, wherein said associations represent at least one object common to at least two of said realms that enable propagation of behaviors between said at least two realms in a manner similar to the propagation of said behaviors in said system; and

    (d) unifying objects in said realms based on said associations.

2. (Previously presented)   The method of Claim 1, further comprising the step of:

    unified processing of two or more realms by performing processing in each of said two or more realms, and
    combining results thereof based on said associations of said two or more realms.

3. (Previously presented)   The method of Claim 1 wherein said system is an enterprise management system.

4. (Previously presented)   The method of Claim 1 wherein said realms comprise at least one realm modeling business service components and at least one realm modeling infrastructure components.

5. (Currently amended)   The method of Claim 2 wherein the unified processing identifies infrastructure problems impacting applications, applications impacting ~~business~~ services, or infrastructure problems impacting services.

6. (Currently amended)   The method of Claim 1 wherein said system <u>is</u> <u>selected from the group consisting of:</u> ~~comprises~~ an engineering system<u>, a distributed</u> <u>system, an application server system, a networked system, an optical network, a wireless</u> <u>network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual</u> <u>Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a</u> <u>static system, a utility computing system, an autonomic computing system, a grid system,</u> <u>an on-demand system, and an adaptive system.</u>

7.-19. (Cancelled)

20. (Previously presented)   The method of Claim 1 wherein said system comprises a network, and wherein said plurality of realms comprises at least one realm modeling network infrastructure components and at least one realm modeling network security components.

21. (Previously presented)   The method of Claim 1 wherein the step of defining a plurality of realms is performed manually.

22. (Previously presented)   The method of Claim 1 wherein the step of defining a plurality of realms is performed automatically based on given properties of said one or more components.

23. (Previously presented)   The method of Claim 1 wherein the step of defining associations is performed manually.

24. (Previously presented)   The method of Claim 1 wherein the step of defining associations is performed automatically based on given properties of said objects.

25. (Previously presented)   The method of Claim 1 wherein the step of defining associations comprises identifying objects in different realms representing the same component.

26. (Previously presented)   The method of Claim 25 wherein the objects in different realms are substantially identical.

27. (Original) The method of Claim 25 wherein the objects in different realms are different.

28. (Original) The method of Claim 27 wherein the objects in different realms have different attributes.

29. (Original) The method of Claim 1 wherein the step of defining associations comprises defining a relationship object between objects in different realms.

30. (Original) The method of Claim 1 wherein said plurality of realms are defined based on selecting subsets of components in said system.

31. (Original) The method of Claim 1 wherein said pluralities of realms are defined based on different perspectives of the same component in said system.

32. (Original) The method of Claim 1 wherein said plurality of realms are defined based on different levels of abstraction of the same component in said system.

33. (Currently amended)   The method of claim 2 wherein said unified processing is selected from the group consisting of: comprises monitoring said system, analyzing, control, simulation, visualization, configuration, provisioning and design of said system.

34. -41 (Cancelled)

42. (Currently amended)   The method of claim 2 wherein said unified processing is selected from the group consisting of: ~~comprises~~ root cause analysis of events in said system, and correlation of events in said system ~~of events in said system~~.

43. (Cancelled)   .

44. (Previously presented)   The method of Claim 1 wherein the step of dividing said system comprises the step of:

defining said plurality of realms based on one or more models of said system or portions thereof.

45. (Original) The method of Claim 44 wherein said realms are defined by adding associations to one or more pre-existing models of the system.

46-61. (Cancelled)

62. (Currently amended)   A model of a system having one or more components, the model comprising:

a plurality of realms having objects therein representing one or more of said components or relationships between said components, said objects representing attributes and relationships of an associated one of the one or more components; and

associations between realms to unify objects in the realms, wherein said associations represent at least one object common to at least two of said realms that enable propagation of behaviors between said at least two realms in a manner similar to the propagation of said behaviors in said system.

63. (Cancelled).

64. (Previously presented)   The model of Claim 62 wherein the objects corresponding to said associations in different realms are substantially identical.

65. (Previously presented)   The model of Claim 62 wherein the objects corresponding to said associations in different realms are different.

66. (Original) The model of Claim 65 wherein the objects in different realms have different attributes.

67. (Original) The model of Claim 62 wherein said associations comprise a relationship object between objects in different realms.

68. (Original) The model of Claim 62 wherein said plurality of realms are defined based on selecting subsets of components in said system.

69. (Original) The model of Claim 62 wherein said plurality of realms are defined based on different perspectives of the same component in said system.

70. (Original) The model of Claim 62 wherein said plurality of realms are defined based on different levels of abstraction of the same component in said system.

71. (Original) The model of Claim 62 wherein said system is an enterprise management system.

72. (Previously presented)   The model of Claim 62 wherein said realms comprise one or more business service realms, one or more application realms, and/or one or more infrastructure realms.

72. (Cancelled)

72a. (Cancelled)

73. (Currently amended)   The model of Claim 62 wherein said system is selected from the group consisting of: comprises an engineering system, a distributed system, an application server system, a networked system, an optical network, a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a

static system, a utility computing system, an autonomic computing system, a grid system, an on-demand system, and an adaptive system..

74.- 86. (Cancelled)

87. (Original) The model of Claim 62 wherein said system comprises a network, and wherein said plurality of realms comprises at least one realm modeling network infrastructure components and at least one realm modeling network security components.

88. (Currently amended)   A computer program product in computer-readable media for modeling a system having one or more components, the computer program product comprising instructions for causing a computer to:

(a)   divide said system into one or more components

(b)   define a plurality of realms including objects therein representing said one or more components said objects representing attributes and relationships of an associated one of the one or more components;

(c)   define associations between realms to unify the realms, wherein said associations represent at least one object common to at least two of said realms that enable propagation of behaviors between said at least two realms in a manner similar to the propagation of said behaviors in said system; and

(d)   unify objects in the realms based on said associations.

89. (Previously presented)   The computer program product of Claim 88 further comprising instructions for causing the computer to:

perform unified processing of two or more realms by performing processing in each of said two or more realms, and combining results thereof based on said associations of said two or more realms.

90. (Previously presented)   The computer program product of Claim 88 wherein said system is an enterprise management system.

91. (Previously presented)   The computer program product of Claim 88 wherein said realms comprise at least one realm modeling business service components and at least one realm modeling infrastructure components.

92. (Previously presented)   The computer program product of Claim 88 wherein the unified processing identifies infrastructure problems impacting applications, applications impacting services, or infrastructure problems impacting services.

93. (Currently amended)   The computer program product of Claim 88 wherein said system is selected from the group consisting of: comprises an engineering system, a distributed system, an application server system, a networked system, an optical network, a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a utility computing system, an autonomic computing system, a grid system, an on-demand system, and an adaptive system..

94. – 106 (Cancelled)

107. (Previously presented)   The computer program product of Claim 88 wherein said system comprises a network, and wherein said plurality of realms comprises at least one realm modeling network infrastructure components and at least one realm modeling network security components.

108. (Currently amended)   The computer program product of Claim 88 wherein the step of dividing is performed automatically automated based on given properties of said one or more components.

109. (Currently amended) The computer program product of Claim 88 wherein the step of defining associations is performed automatically ~~automated~~ based on given properties of said objects.

110. (Previously presented) The computer program product of Claim 88 wherein the step of defining associations comprises identifying objects in different realms representing the same component.

111. (Previously presented) The computer program product of Claim 110 wherein the objects in different realms are substantially identical.

112. (Original)The computer program product of Claim 110 wherein the objects in different realms are different.

113. (Original)The computer program product of Claim 112 wherein the objects in different realms have different attributes.

114. (Original)The computer program product of Claim 88 wherein (c) comprises defining a relationship object between objects in different realms.

115. (Original)The computer program product of Claim 88 wherein said plurality of realms are defined based on selecting subsets of components in said system.

116. (Original)The computer program product of Claim 88 wherein said plurality of realms are defined based on different perspectives of the same component in said system.

117. (Original)The computer program product of Claim 88 wherein said plurality of realms are defined based on different levels of abstraction of the same component in said system.

118. (Currently amended) The computer program product of Claim 89 wherein said unified processing is selected from the group consisting of: ~~comprises~~

monitoring ~~said system~~, analyzing, control, simulation, visualization, configuration, provisioning and design of said system.

119. – 125 (Cancelled

126. (Cancelled).

127. (Currently amended)   The computer program product of Claim 89 wherein said unified processing is selected from the group consisting of: ~~comprises~~ root cause analysis of events in said system, and correlation of events in said system.

128. (Cancelled)

129. (Previously presented)   The computer program product of Claim 88 wherein the step of dividing comprises defining said plurality of realms based on one or more models of said system or portions thereof.

130. (Original)The computer program product of Claim 129 wherein said realms are defined by adding associations to one or more of said models.

131-146 (Cancelled).

147. (Currently amended)   An apparatus for modeling a system having one or more components, the apparatus comprising:

(a)   means for dividing said system into one or more components

(b)   means for defining a plurality of realms including objects therein representing said one or more components said objects representing attributes and relationships of an associated one of the one or more components;

(c)   means for defining associations between realms to unify the realms , wherein said associations represent at least one object common to at least two of said

realms that enable propagation of behaviors between said at least two realms in a manner similar to the propagation of said behaviors in said system; and

    (d)   means for unifying objects in the realms based on said associations.

148. (Previously presented)   The apparatus of Claim 147 further comprising:
    means for unified processing of two or more realms by performing processing in each of said two or more realms, and combining results thereof based on said associations of said two or more realms.

149. (Previously presented)   The apparatus of Claim 147 wherein said system is an enterprise management system.

150. (Previously presented)   The apparatus of Claim 147 wherein said realms comprise one or more business service realms, one or more application realms, and/or one or more infrastructure realms.

151. (Previously presented)   The apparatus of Claim 147 wherein the combined results identify infrastructure problems impacting applications, applications impacting services, or infrastructure problems impacting services.

150. (Cancelled)

151. (Cancelled)   .

152. (Currently amended)   The apparatus of Claim 147 wherein said system is selected from the group consisting of: comprises an engineering system, a distributed system, an application server system, a networked system, an optical network, a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a utility computing system, an autonomic computing system, a grid system, an on-demand system, and an adaptive system.

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153. - 164 (Cancelled).

165. (Previously presented)   The apparatus of Claim 147 wherein said system comprises a network, and wherein said plurality of realms comprises at least one realm modeling network infrastructure components and at least one realm modeling network security components.

166. (Previously presented)   The apparatus of Claim 147 wherein the step of dividing is automated based on given properties of said one or more components.

167. (Currently amended)   The apparatus of Claim 147 wherein the step of defining associations is <u>performed automatically</u> ~~automated~~ based on given properties of said objects.

168. (Previously presented)   The apparatus of Claim 147 wherein the step of defining associations comprises:

   means for identifying objects in different realms representing the same component.

169. (Previously presented)   The apparatus of Claim 168 wherein the objects in different realms are substantially identical.

170. (Original)The apparatus of Claim 168 wherein the objects in different realms are different.

171. (Original)The apparatus of Claim 170 wherein the objects in different realms have different attributes.

172. (Previously presented)   The apparatus of Claim 147 wherein the step of defining associations comprises means for defining a relationship object between objects in different realms.

173. (Original)The apparatus of Claim 147 wherein said plurality of realms are defined based on selecting subsets of components in said system.

174. (Original)The apparatus of Claim 147 wherein said plurality of realms are defined based on different perspectives of the same component in said system.

175. (Original)The apparatus of Claim 147 wherein said plurality of realms are defined based on different levels of abstraction of the same component in said system.

176. (Currently amended)   The apparatus of Claim 148 wherein unified processing comprises is selected from the group consisting of: comprises monitoring said system, analyzing, control, simulation, visualization, configuration, provisioning and design of said system.

177. (Original)The apparatus of Claim 148 unified processing comprises analyzing said system.

178. - 184 (Cancelled)

185. (Currently amended)   The apparatus of Claim 148 wherein unified processing is selected from the group consisting of: comprises root cause analysis of events in said system, and correlation of events in said system.

186. (Cancelled)

187. (Original)The apparatus of Claim 147 wherein the step of dividing comprises means for defining said plurality of realms based on one or more models of said system or portions thereof.

188. (Previously presented)   The apparatus of Claim 187 wherein said realms are defined by adding associations to one or more said models.

189. – 204 (Cancelled)

205. (Currently amended)   An apparatus for performing processing relating to a system having a plurality of components, comprising:

(a)   a storage device for storing a model of the system, the model comprising a plurality of realms having objects therein representing said one or more components or relationships between components said objects representing attributes and relationships of an associated one of the one or more components; and associations between realms to unify objects in the realms , wherein said associations represent at least one object common to at least two of said realms that enable propagation of behaviors between said at least two realms in a manner similar to the propagation of said behaviors in said system; and

(b)   means for unified processing of two or more realms by performing processing in each of said two or more realms, and combining results thereof based on said associations of said two or more realms.

206. (Original)The apparatus of Claim 205 wherein said system is an enterprise management system.

207. (Previously presented)   The apparatus of Claim 205 wherein said realms comprise at least one realm modeling business service components and at least one realm modeling infrastructure components.

208. (Previously presented)   The apparatus of Claim 205 wherein the unified processing identifies infrastructure problems impacting applications, applications impacting services, or infrastructure problems impacting services.

209. (Currently amended)   The apparatus of Claim 205 wherein said system is selected from the group consisting of: comprises an engineering system, a distributed system, an application server system, a networked system, an optical network, a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a

static system, a utility computing system, an autonomic computing system, a grid system, an on-demand system, and an adaptive system.

210. – 222 (Cancelled)

223. (Original)The apparatus of Claim 205 wherein said system comprises a network, and wherein said plurality of realms comprises at least one realm modeling network infrastructure components and at least one realm modeling network security components.

224. (Currently amended)   The apparatus of Claim 205 wherein unified processing is selected from the group consisting of: comprises monitoring said system, analyzing, control, simulation, visualization, configuration, provisioning and design of said system.

225. – 232 (Cancelled)

232. (Cancelled)

233. (Currently amended)   The apparatus of Claim 205 wherein unified processing is selected from the group consisting of: comprises root cause analysis of events in said system, and correlation of events in said system.

234. (Cancelled).

235. (Cancelled).

236. (Currently amended)   A method of modeling a system having one or more components, comprising:

(a)   defining a plurality of realms including objects therein representing said one or more components said objects representing attributes and relationships of an associated one of the one or more components;

(b)   creating associations between realms to unify the realms , wherein said associations represent at least one object common to at least two of said realms that enable propagation of behaviors between said at least two realms in a manner similar to the propagation of said behaviors in said system; and

(c)   unifying objects in the realms.

(d)   unified processing of two or more realms by performing processing in each of said two or more realms, and combining results thereof based on said associations of said two or more realms.

237. (Cancelled)

238. (Previously presented)   The method of Claim 236 wherein said system is an enterprise management system.

239. (Previously presented)   The method of Claim 236 wherein said realms comprise at least one realm modeling business service components and at least one realm modeling infrastructure components.

240. (Previously presented)   The method of Claim 236 wherein said realms further include at least one realm modeling application components.

241. (Previously presented)   The method of Claim 236 wherein said system is selected from the group consisting of: comprises an engineering system, a distributed system, an application server system, a networked system, an optical network, a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a utility computing system, an autonomic computing system, a grid system, an on-demand system, and an adaptive system.

242. – 254 (Cancelled)

255. (Previously presented)   The method of Claim 236wherein said system comprises a network, and wherein said plurality of realms comprises at least one realm modeling network infrastructure components and at least one realm modeling network security components.

256. (Previously presented)   The method of Claim 236 wherein the step of defining \ is performed manually.

257. (Previously presented)   The method of Claim 236 wherein the step of defining is performed automatically based on given properties of said components.

258. (Currently amended)   The method of Claim 236 wherein the step of defining is performed manually.

259. (Previously presented)   The method of Claim 236 wherein the step of defining is performed automatically based on given properties of said objects.

260. (Previously presented)   The method of Claim 236 wherein the step of defining comprises identifying objects in different realms representing the same component.

261. (Previously presented)   The method of Claim 260 wherein the objects in different realms are substantially identical.

262. (Original)The method of Claim 261 wherein the objects in different realms are different.

263. (Original)The method of Claim 262 wherein the objects in different realms have different attributes.

264. (Previously presented)   The method of Claim 236 wherein the step of defining comprises defining a relationship object between objects in different realms.

265. (Original)The method of Claim 236 wherein said plurality of realms are defined based on selecting subsets of components in said system.

266. (Original)The method of Claim 236 wherein said plurality of realms are defined based on different perspectives of the same component in said system.

267. (Original)The method of Claim 236 wherein said plurality of realms are defined based on different levels of abstraction of the same component in said system.

268. (Currently amended)   The method of claim [[237]] 236 wherein said unified processing is selected from the group consisting of: comprises monitoring said system, analyzing, control, simulation, visualization, configuration, provisioning and design of said system.

269. – 275 (Cancelled)

276. (Currently amended)   The method of claim [[237]] 236 wherein said unified processing comprises propagation of behaviors of said system across realms.

277. (Currently amended)   The method of claim [[237]] 236 wherein said unified processing is selected from the group consisting of: comprises root cause analysis of events in said system, and correlation of events in said system.

278. (Cancelled).

279. (Previously presented)   The method of Claim 236 wherein the step of defining comprises defining said plurality of realms based on one or more models of said system or portions thereof.

280. (Original)The method of Claim 279 wherein said realms are defined by adding associations to said one or more models.

281-296. (Cancelled)

297. (Original)The method of Claim 4 wherein said realms further include at least one realm modeling application components.

298. (Previously presented) The method of Claim 2 wherein the unified processing identifies infrastructure problems impacting services.

299. (Currently amended) The method of Claim 1 wherein the step of unifying is performed manually [[manual]].

300. (Previously presented) The method of Claim 1 wherein the step of unifying is performed automatically.

301. (Original)The method of claim 2 wherein said unified processing comprises event correlation of said system.

302. (Cancelled).

303. (Original)The computer program product of Claim 91 wherein said realms further include at least one realm modeling application components.

304. (Previously presented) The computer program product of Claim 89 wherein the unified processing identifies infrastructure problems impacting services.

305. (Original)The computer program product of claim 89 wherein said unified processing comprises for event correlation of said system.

306. (Previously presented) The apparatus of Claim 147 wherein said realms further include at least one realm modeling application components.

307. (Previously presented) The apparatus of Claim 148 wherein the unified processing identifies infrastructure problems impacting applications, applications impacting services, or infrastructure problems impacting services.

308. (Original)The apparatus of Claim 148 wherein said unified processing comprises event correlation of said system.

309. (Previously presented)   The apparatus of Claim 205 wherein said realms further include at least one realm modeling application components.

310. (Previously presented)   The apparatus of Claim 205 wherein the unified processing identifies infrastructure problems impacting services.

311. (Original)The apparatus of Claim 205 wherein said unified processing comprises event correlation of said system.

312. (Currently amended)   The method of Claim [[237]] wherein the unified processing identifies infrastructure problems impacting applications, applications impacting services, or infrastructure problems impacting services.

313. (Currently amended)   The ~~apparatus~~ method of Claim [[237]] 236 wherein the unified processing identifies infrastructure problems impacting services.

314(Currently amended)   The method of Claim [[237]] 236 wherein said unified processing comprises event correlation of said system.

315. (Previously presented)   The method of Claim 236 wherein the step of unifying is performed manually.

316. (Currently amended)   The method of Claim 236 wherein the step of unifying is performed automatically. [[automated]]

317. (New)   The model of Claim 72 wherein said realms further include at least one realm modeling application components.

318. (New)   The apparatus of Claim 147 wherein said realms comprise at least one realm modeling business service components and at least one realm modeling infrastructure components.

319. (New) The apparatus of Claim 147 wherein the unified processing identifies infrastructure problems impacting services.